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6 October 1965

MEMORANDUM FOR: Mr. Ted Vea, C/R&D

SUBJECT : HEALTH Hazard Radiometer Report

Attached is the first report from Mr. [redacted] concerning the development of the Health Hazard Radiometers, in which he summarizes negotiated understandings with [redacted] to date.

The contents are self-explanatory.

Regards,

[redacted signature block]

(5)

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RELEASED

SEP 1983

30 September 1965

MEMORANDUM FOR: The Files: Project H
SUBJECT : Health Hazard Radiometer (RAM),
Contract Negotiations

1. Project Description:

To provide two engineering model Health Hazard Radiometers suitable for field use. The devices will be capable of monitoring and recording the level of microwave radiation in a particular area, on a continuous basis.

2. Contractual Information (See Status)

- a. Cost: B (CPFF) State Dept. Funds
- b. Initiation Date: 28 September 1965
- c. Completion Date: 1 April 1965

3. Date of Meeting: 27 September 1965

4. Place of Meeting: A

5. Personnel Attending:

Agency

D

A

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SUBJECT: Health Hazard Radiometer (RAM), Contract Negotiations

6. Contractor's Performance:

Not applicable.

7. Status:

A general discussion of the proposed program was held and several changes to the initial proposal, H were made. The power supply will be operated from the mains with inputs of 115, 160, 220 Vac $\pm 15\%$, 48-62 cps. The need for a specially wound transformer will be offset by the elimination of battery supply and recharger.

The need for $\pm 1/2$ dB accuracy rather than ± 3 dB was accepted as a goal with the understanding that we would accept a 1 to 10 Gc/s frequency response vice 1-40 Gc/s if the requested accuracy could be achieved. A determination of ultimate accuracy cannot be made until further theoretical work is accomplished. However, the estimate of ± 3 dB was made on the basis of hand solutions of rather complex equations. Since that time the equations have been solved by computer and the data is in the process of being analyzed.

The 1000 mW/cm² range will be included with only rough calibration, most likely at one or two selected power levels in the lower part of the range.

The desire for long term accuracy, stability and reliability led to consideration of an automatic calibration system such that the sensor system would be rebalanced before every reading. This type of calibration feature will be investigated early in the program.

The problem of packaging for shipment was explored with special attention being paid to the protective dome around the sensor. It was agreed that the best solution was to supply the contractor with two of the special State Dept. shipping containers, for actual tests late in the program.

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SUBJECT: Health Hazard Radiometer (RAM), Contract
Negotiations

The program manager, Mr. [REDACTED] was informed that both Messrs. Charles J. Weiss and Theodore H. Vea, State Dept., were to have complete access to program data when and if they visit the plant. Further, that in the event any other individual accompanies those named above, Messrs. Weiss and Vea have the personal authority to vouch for the individual.

During actual negotiations, G&A was reduced by 2% and profit by 1% bringing the negotiated CPPF contract price to [REDACTED] while the contract document will not be ready for approximately three weeks, the effective contract initiation date will be 28 September 1965. Based on Mr. [REDACTED] verbal intent to contract, although not legally binding, [REDACTED] agreed to commence work immediately. The first monthly report is due 15 November 1965.

[REDACTED]

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